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The National Map Responding in a Crisis

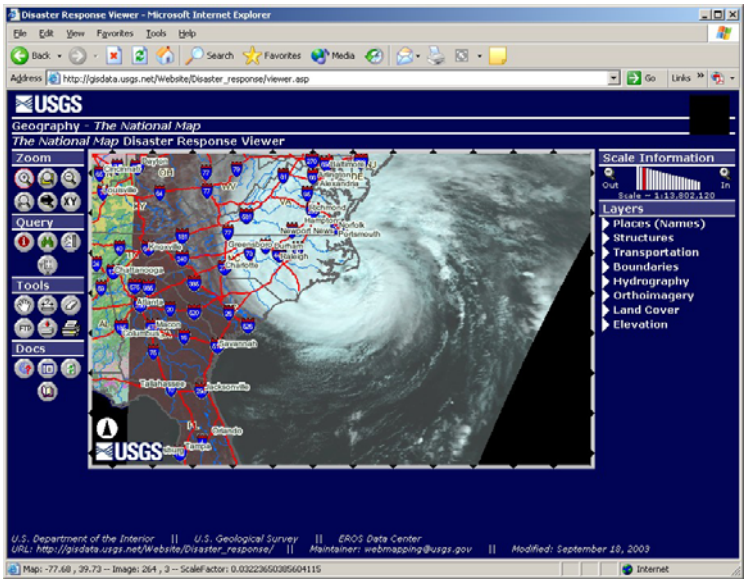
Draft 3/16/04

Introduction: The U.S. Geological Survey and EROS Data Center in support of ***The National Map*** provides geospatial data access via downloads and web services. Using the base layers of ***The National Map,*** the web services and downloads provide instant data access in support of Homeland Security and Emergency Response issues. The base layers consist of framework categories:

- Transportation
- Boundaries
- Hydrography
- Orthoimagery
- Land Cover
- Elevation

Emergency Response: In the case of natural disasters, such as floods, earthquakes, hurricanes, etc., the capability to look at potential problem areas affected is a feature of several web services. The incorporation of national datasets, not only ***The National Map*** layers, but layers such as Advanced Very High Resolution Radiometer (AVHRR) for hurricanes are great assets to these web services.

The National Map Disaster Response Viewer (http://gisdata.usgs.net/website/Disaster_Response) The map interface provides access to The National Map layers and AVHRR images. Partnership data can be used as areas are zoomed into.



Disaster Response map viewer. Initial view of the east coast and an AVHRR image of Hurricane Isabel on 9-18-2003.

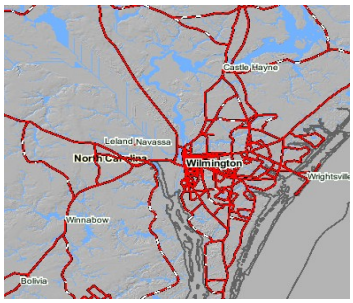


Figure 1

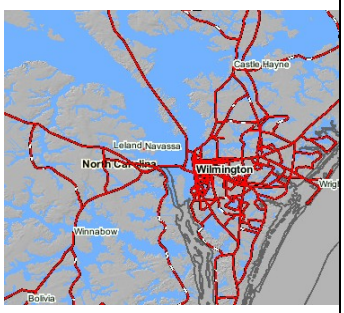


Figure 2

Figure 1 and **Figure 2** are zoomed into Wilmington, North Carolina. The base layers shown are elevation (NED) and transportation (BTS Roads). **Figure 1** illustrates flood potential at 1 meter flood stage. **Figure 2** illustrates flood potential at 5 meter flood stage.

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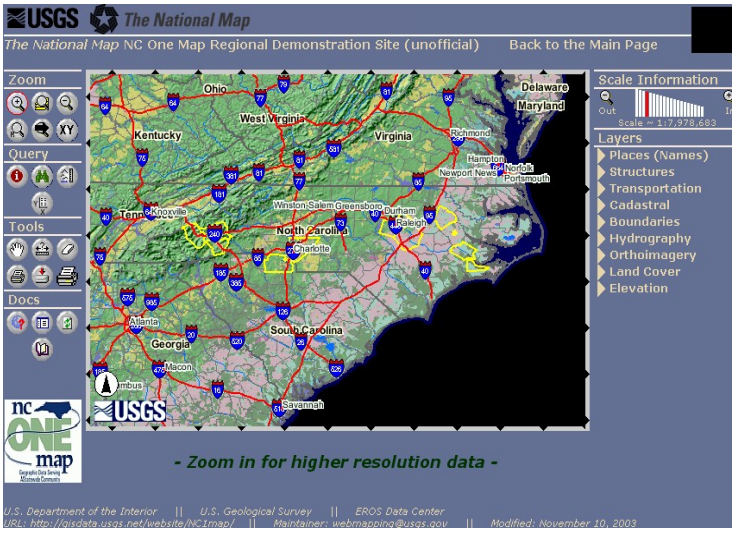
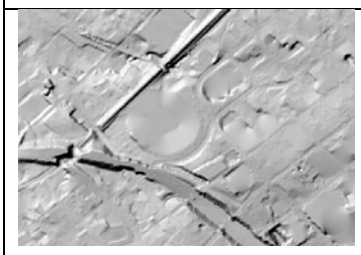
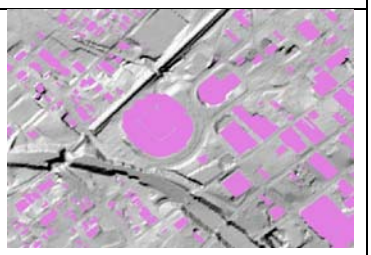
North Carolina One Map Demonstration Site (Unofficial): (http://gisdata.usgs.net/website/NC1)
The map interface demonstrates the cooperation between USGS and partnerships.
North Carolina One Map Initial View. Yellow areas indicate location of partner data.





LIDAR elevation data of Carolina Panther Stadium



Buildings layer over LIDAR elevation data.

High Resolution Orthoimagery for Carolina Panthers Stadium.

Homeland Security: With the heightened concern of homeland security, the interest of current geospatial data has increased. An example of addressing this issue is a partnership with North Carolina One Map. (http://nconemap.net) The viewer demonstrates the partnership between ***The National Map*** base layers and state, county, and local data layers.

Future Plans: Continue to support Homeland security and Emergency Response as incidents occur and partnership opportunities arise.

Informative URL's:

http://gisdata.usgs.net
http://gisdata.usgs.net/IADD
http://edna.usgs.gov
http://ned.usgs.gov
http://edc.usgs.gov
http://nationalmap.usgs.gov
http://nconemap.net
http://gisdata.usgs.net/website/NC1
http://gisdata.usgs.net/website/Disaster_Response

Contact Information:

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